

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1-20 (canceled)

Claim 21 (new): A method for adapting the operating mode of a multi-mode codec to changing transmission conditions in a CDMA mobile transmission network, comprising: whichever of two mobile stations (MS1; MS2) encounters a change in the transmission quality on its air interface, which causes it to change its codec operating mode, induces the other mobile station (MS1; MS2) in the case of a transmission between two mobile stations, or a transcoder in the case of a transmission from a mobile station to a public switching telephone network, to likewise change the codec operating mode.

Claim 22 (new): The method according to Claim 21, including changing to a more robust codec operating mode whenever the transmission conditions on one side of transmission segments involved in the process deteriorate.

Claim 23 (new): The method according to Claim 21, including changing to a less robust codec operating mode whenever the transmission conditions on all transmission segments involved in the process improve.

Claim 24 (new): The method according to Claim 21, including having the decision to change the codec operating mode originate in radio network controllers RNC of the mobile transmission network.

Claim 25 (new): The method according to Claim 21, including having radio network controllers RNC select a physical transmission channel to be used when there is a change of the codec operating mode.

Claim 26 (new): The method according to Claim 21, including having base stations Node-Bs inform an associated radio network controller RNC regarding the quality of the connection in an uplink, and wherein the mobile station MS using the Node-Bs of the radio network controller RNC decides on a change of codec operating modes based on measurement values.

Claim 27 (new): The method according to Claim 21, and using outband signaling between a radio network controller RNC and an associated mobile station MS regarding a change in codec operating mode.

Claim 28 (new): The method according to Claim 21, including having inband signaling among radio network controllers RNC involved or between a radio network controller RNC and the transcoder to exchange information on the codec operating mode being used.

Claim 29 (new): The method according to Claim 28, including having the inband signaling use specific fields of a transmission frame, where a first field CMI specifies which codec operating mode is used for the transmission frame and wherein a second field BRI identifies a change in transmission conditions of a relevant transmission segment.

Claim 30 (new): The method according to Claim 21, including having differing codec operating modes in place simultaneously in a connection with two duplex directions.

Claim 31 (new): The method according to Claim 21, including having a radio network controller RNC instruct a mobile station MS via a signaling channel between the radio network controller RNC and the mobile station MS to use a different codec operating mode and to specify the time of change, once the radio network controller RNC has decided to change the codec operating mode.

Claim 32 (new): The method according to Claim 31, including specifying the time of change by means of frame identification between the radio network controller RNC and the mobile station MS.

Application Serial No. 09/936,273
Amendment dated October 11, 2005
Reply to Office Action dated July 12, 2005

Claim 33 (new): The method according to Claim 31, including having the mobile station MS transmit in a new operating mode from the specified time of change.

Claim 34 (new): The method according to Claim 21, including having a radio network controller RNC receive transmission frames with voice signals in a new codec operating mode from the associated mobile station MS, and the radio network controller RNC transmitting to other radio network controllers involved in the transmission.